

B0213WO seq list.ST25.txt
SEQUENCE LISTING

<110> EXONHIT THERAPEUTICALS

<120> PROSTATE SPECIFIC GENES AND THE USE THEREOF AS TARGETS FOR PROSTATE CANCER
THERAPY AND DIAGNOSIS

<130> B0213WO

<160> 185

<170> PatentIn version 3.1

<210> 1

<211> 151

<212> DNA

<213> Homo sapiens

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<211> 168

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<213> Homo sapiens

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ccctgagacc aactttcatt ttacagatga aaaaactgag accggtaggg gtaaaatgcc	180
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<212> DNA

<213> Homo sapiens

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ggatggtgag gatggcagcc aggcgtggga tctgtattca agaagaagct gccccactcg	360
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<212> DNA

<213> Homo sapiens

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tttcttttgt caagcccagc atgtgcctcc tataggcacc agtggctctc gcaagtcctg	420
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<212> DNA

<213> Homo sapiens

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<212> DNA

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<211> 183

<212> DNA

<213> Homo sapiens

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<211> 489

<212> DNA

<213> Homo sapiens

<400> 17

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gacactttgt gggaaattca cagaccatca aagataaggg aaaaacctca tgggctacag      180
cagaaaagag acccattcta cacaagaac aagttcaca tatgagacag agccacgcac      240
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<213> Homo sapiens

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ataagggatga gcaaagctgc caggcccaca ggagagagag cccacaggag ccctggatcc      180
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<213> Homo sapiens

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 aagagtgggtg gccta 195

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<210> 23

<211> 199

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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gtgaaattgc cagagttt 258

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<211> 171

<212> DNA

<213> Homo sapiens

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<211> 223

<212> DNA

<213> Homo sapiens

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<211> 249

<212> DNA

<213> Homo sapiens

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<210> 28

<211> 334

<212> DNA

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<213> Homo sapiens

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<210> 29

<211> 226

<212> DNA

<213> Homo sapiens

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<210> 30

<211> 372

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 34

<211> 443

<212> DNA

<213> Homo sapiens

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cagggcacac agacctcgcc gca 443

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<211> 272

<212> DNA

<213> Homo sapiens

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<212> DNA

B0213W0 seq list.ST25.txt

<213> Homo sapiens

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<211> 342

<212> DNA

<213> Homo sapiens

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 cagacactcc ttaggaccag ggacacattc cccgagctgc caggagtgtt agcagctgac 240
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B0213WO seq list.ST25.txt

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<212> DNA

<213> Homo sapiens

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<211> 408

<212> DNA

<213> Homo sapiens

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<211> 158

<212> DNA

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<213> Homo sapiens

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<211> 3094

<212> DNA

<213> Homo sapiens

<400> 76

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<210> 77

<211> 3024

<212> DNA

<213> Homo sapiens

<400> 77

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<212> DNA

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<400> 78

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<211> 997

<212> DNA

<213> Homo sapiens

<400> 79

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<210> 82
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<211> 258

<212> DNA

<213> Homo sapiens

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<211> 2226

<212> DNA

<213> Homo sapiens

<400> 84

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<211> 2466

<212> DNA

<213> Homo sapiens

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tccttagggc gggaccatc ctctgcttcc cgaataacca acactccttt ccattgcccc	600
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B0213WO seq list.ST25.txt

tcccaggtcc tgggagaaag tccctgaact cctagaaggt cccaagcgac aggagtgtct 720
gttcac 726

<210> 107
<211> 253
<212> DNA
<213> Homo sapiens

<220>
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<222> (98)..(98)
<223> n = a t g o r c

<400> 107
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cctggcggcg aatgccatcc ccaaaggctt catggacggg aagcaggcct gcatttctcat 180
gatcaaagcc ctggaacttg accccaactt atacaggata gggcagagca aaatcttctt 240
ccgaactggc gtc 253

<210> 108
<211> 448
<212> DNA
<213> Homo sapiens

<400> 108
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ccgcgtgagg gcaagcgccg ctatatatttc gcggaaagcc cgttcggtccg cgcgtgtcca 180
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ggcctgaccc ataacgcttc tcaatcacta gtgcggccgc ctgcaggctc accatatggg 420
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B0213WO seq list.ST25.txt

<210> 109

<211> 437

<212> DNA

<213> Homo sapiens

<400> 109

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catcttaata atcccatccc tatctaata taggcacaat tcttagctgg ccccatgac      180
tccaatcctt ggtgttacat cctgtataat attctttcct tgagtgtggg tgggacctgt      240
gacttgcttc tagttgagat tatctacatt acataaggct ccatcttgga gtaagagatt      300
tctctgctgg ccctgaagta gcagctatgt tgtgaacagc caatggagaa agccatatgg      360
cagagacctg caacagaagg tggacctgaa ggtggcctct ggtcaccagc aacagcccca      420
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<210> 110

<211> 244

<212> DNA

<213> Homo sapiens

<400> 110

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tccaagggtgt cttcagcggg attccaaaga agtttgtctc ctcgagggtt aacggttctc      180
cgttaacgac gatcccgatc ttcgccgtag ttccaccgac atcaagcgag ataacctccc      240
caga                                     244
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<210> 111

<211> 272

<212> DNA

<213> Homo sapiens

<400> 111

B0213WO seq list.ST25.txt

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agaagtacag caccatgttg gcaagtcggg agtagcacca atgcccgtga agaatacaaga	180
gcctctccag gtatcggaat ttcggcactg caaagtcgct ggccatcact gccttcaaag	240
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<210> 112

<211> 413

<212> DNA

<213> Homo sapiens

<400> 112

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taggtttaac tcggagttag aattctgggt ttgtttctca cttagggaaa aaaaatagct	180
ttgtaaaggg aggttactaa ataaaacttt gagaactcta ttcaccctca caggatgact	240
tttggttgc aattcaatcc ctggcagggt actgttcacg tatagaattt ccaggcgact	300
agaaggcatt tgaaaggaat tcttaccgaa cattaacctg ctttggtaac cacagaaggc	360
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<210> 113

<211> 541

<212> DNA

<213> Homo sapiens

<400> 113

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ttgttgagaga ccttgcaact gtactccttg ccgttcagcc agtcctggtg caggacggtg	180
aggacgctga ccacacggaa cgtgctgttg gactgctcct cccgcggctt tgtcttgga	240
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cacgtccacc accacgcatg tgacctcagg ggtccgggag atcatgaggg tgccttggg	360
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B0213WO seq list.ST25.txt

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<210> 114

<211> 226

<212> DNA

<213> Homo sapiens

<400> 114
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aaggggttca aacccccacct cagtaggtgg aggggagcgc ctgccattgg ttgtattttt 180
gttctgagtt ttcggtgccg tggttcctaac tactccatcc catgac 226

<210> 115

<211> 439

<212> DNA

<213> Homo sapiens

<400> 115
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tatggctctt ttttattggt gagtttttat tattacaaaa tcaatttaaa caaataaaag 180
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agtccgcccc aaaaaccagt tatgacaaac aacctgacat tgggagacaa gtcgctgcac 360
ataacgcttc tcaatcacta gtgcggccgc ctgcaggctc accatatggg agagctccca 420
acgcgttggg tgcatagct 439

<210> 116

<211> 175

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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 aactaggttt ccctactcac ttctcaaaa agagtgatgt aggtccacgt gtacc 175

<210> 117

<211> 521

<212> DNA

<213> Homo sapiens

<400> 117
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 ggaaggagct tcaggtgagc actgctcatg tgtggatgcc cctgcaacag gcttccctgt 180
 ctgtagagcc aggggtgcaa gtgccatcca cacttgcatg gaatggcttt tccttttagg 240
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 gttgttaatc catcacaagc aaaaggctag aacagttaaa cactgccttt cctcctcctc 360
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 tttaaattaa ggtaaaggct gctgggtgtg gtacctgtgg atttttctat actgatgttt 480
 tcgttttgcc aatataatga gtattacatt ggcctctcgt a 521

<210> 118

<211> 131

<212> DNA

<213> Homo sapiens

<400> 118
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<210> 119

<211> 212

<212> DNA

B0213WO seq list.ST25.txt

<213> Homo sapiens

<400> 119
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 gcccgactga tccacgacag gaacaccgcg tcccacaccg cggcggcagc caggacccaa 180
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<210> 120

<211> 137

<212> DNA

<213> Homo sapiens

<400> 120
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<210> 121

<211> 265

<212> DNA

<213> Homo sapiens

<400> 121
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 aaaatgtgtt cttaaaatgc aatactatct cgaggcagtt taaattctaa caataggagc 180
 ctacatacca gatggctttg aaatatttac aggtcctctt tgcctgaatt tttagttatc 240
 caggaacaac cattataact tatac 265

<210> 122

<211> 285

<212> DNA

<213> Homo sapiens

B0213W0 seq list.ST25.txt

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atgcttgga ctggatgga agactttgga gcagctgtgg ggggtggggg gacaccgaca 180
accaaacaga cgtgctggct ccagtcctgt ttttactttc aaaaaccaac aagcccgaca 240
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<210> 123

<211> 269

<212> DNA

<213> Homo sapiens

<400> 123
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gaggagatga ctctaattgt tcaatatatt tcatggtact taatttatgt ggcggggata 180
acgcttctca atcactagtg cggccgcctg caggctcgacc atatgggaga gctcccaacg 240
cgttggatgc atagcttgag tattctata 269

<210> 124

<211> 203

<212> DNA

<213> Homo sapiens

<400> 124
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ccagcagtgt gtgttctcca aagaccacag acaggcgctt gaagggcaca ttcatgccgc 120
ggtgcggccg gaaaccgcag gctgtgctga ccagctcaga gatggcactg gctgcctgct 180
catcattctc caggctccacc cga 203

<210> 125

<211> 239

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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 tcccgggagc tgcgagcatt caggtacgtg aggtagcggc cggggcattt ttccacgcag 180
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<210> 126

<211> 461

<212> DNA

<213> Homo sapiens

<400> 126
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 actcgcttag aggcttttct cgacagcaca ggatcaccac catcaccaca aacgtggcta 360
 cgcacacgc ctcctctgca taacgcttct caatcactag tgcggccgcc tgcagggtcg 420
 ccatatggga gagctcccaa cgcgttggat gcatagcttg a 461

<210> 127

<211> 284

<212> DNA

<213> Homo sapiens

<400> 127
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 agtgccctca gctggaactg ttacgggac agaagacgta catgcttcag gaagacatcc 180
 aggtcggtac cataacgctt ctaatcacta gtgcggccgc ctgcagggtcg accatatggg 240
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<210> 128

B0213WO seq list.ST25.txt

<211> 252
 <212> DNA
 <213> Homo sapiens

<400> 128
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 atatcaacat ccacaatgac cgtaaccac aatagttcag tgacatctgc tgcttcatca 180
 gtaacaatca caacaactat gcattctgaa gcaaagaaag gatcaaaatt tgatactggg 240
 agctttgttg gt 252

<210> 129
 <211> 382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (380)..(380)
 <223> n = a t c o r g

<400> 129
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 gcagcataaa gccagttgc tttgggaagt gtttgggacc agatggattg ttgggagtag 180
 ggtacaatac agtctggtct cctccagctc cttctttctg caacatgggg aagaacaaac 240
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 gcttgagtat tctatagtgn tc 382

<210> 130
 <211> 305
 <212> DNA

<213> Homo sapiens

<400> 130
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 cggagaattt cccagaggtc ttcgccttgt gccacagctt ttccagcctg gggcatcca 180
 gcccgcttc ctgggtgcc ctgagagagt tgctggtcac ctgccgagcg tccttctttc 240
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 ccccc 305

<210> 131

<211> 337

<212> DNA

<213> Homo sapiens

<400> 131
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 gacagccagc tctcatttaa gaatctcaga acttggagg aaggaggaaa tccacattaa 180
 attctagggc ccaacagaca gagtgtcttc attgccaccc ccagtagtgg ggactacagt 240
 gcacctgtag tcccagtaga tgctctgaca tcacagagct tcctgctcta ccagcccacc 300
 tcatgcatgt caccaccata actatagcct gcaagtc 337

<210> 132

<211> 174

<212> DNA

<213> Homo sapiens

<400> 132
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 cagaaaatgt cttcgtagat gaaccctta ttcgtgcaac tacttatatt cctc 174

<210> 133

<211> 113

B0213WO seq list.ST25.txt

<212> DNA

<213> Homo sapiens

<400> 133

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taatcacgat gcaaattccag ttaaagagga gcatgaataa atagtctgct ggc 113

<210> 134

<211> 191

<212> DNA

<213> Homo sapiens

<400> 134

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ctagaatgaa ccagtcttac tatgtatcta taaccttgcc tttatctcta ttctaatatg 180

gtaatctggt a 191

<210> 135

<211> 1481

<212> DNA

<213> Homo sapiens

<400> 135

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gaacgtcctc atcaccggcg gcgggagagg catcgggcgt cagctcgccc gcgagttcgc 300

ggagcgcggc gccagaaaga ttgttctctg gggccggact gagaaatgcc tgaaggagac 360

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ccgggaggag gtgtaccaga cggccaaggc cgtccgggag aagggtgggtg acatcaccat 480

cctggtgaac aatgccgccg tgggtccatgg gaagagccta atggacagtg atgatgatgc 540

cctcctcaag tcccaacaca tcaacaccct gggccagttc tggaccacca aggccttcct 600

B0213WO seq list.ST25.txt

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<210> 136

<211> 344

<212> DNA

<213> Homo sapiens

<400> 136

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tctatctggt ggtgaaagca gccgtcggac tgggtgtgcc cgccaagctg cgggacctgt	180
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<210> 137

<211> 1088

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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<210> 138

<211> 399

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 1326

<212> DNA

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<211> 698

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 315

<212> DNA

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<211> 219

<212> DNA

<213> Homo sapiens

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<211> 351

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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agctggagaa cctgcgcatg aagcttccca agcctcccaa gcctgtgagc aagatgcgca	300
tggccacccc gctgctgatg caggcgctgc ccatgggagc cctgccccag gggcccatgc	360
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<210> 157

<211> 161

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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<211> 382

<212> DNA

<213> Homo sapiens

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ttgccatagg aactaaciaa ctccaccagc cgggacttga aaatcttctg ccatctttta 180
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gcaactgcag tccactgcag actcatcctg ttgctagaag gtttcccaca ggaagatgtg 300
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<210> 159

<211> 292

<212> DNA

<213> Homo sapiens

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tataaaagaa tcagtgcata tctgttaatg tcattgacaa taaaaatata ttatcttctc 240
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<210> 160

<211> 447

<212> DNA

B0213WO seq list.ST25.txt

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<211> 239

<212> DNA

<213> Homo sapiens

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 aatggtaaac tttagaggac gctaaagcct cactaaaata acgcttctca atcactagtg 180
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<210> 162

<211> 410

<212> DNA

<213> Homo sapiens

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B0213WO seq list.ST25.txt

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<211> 327

<212> DNA

<213> Homo sapiens

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gggttttatt agctccggtg ggtaaaataa actcatctgt atcctgcacg aggtatcgtg 180
gatccacatt taaataagga gacagagggg tcataccagt tagcgggacg ccagccaaat 240
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ccaagtcaag aaattgccag cttncggaag cccactgtgc tcctccccct cataacgctt 240
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<210> 165

B0213W0 seq list.ST25.txt

<211> 351

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<213> Homo sapiens

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<210> 166

<211> 4839

<212> DNA

<213> Homo sapiens

<400> 166
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B0213WO seq list.ST25.txt

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<212> DNA

<213> Homo sapiens

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<210> 168

<211> 355

<212> DNA

<213> Homo sapiens

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acatatttat attaaaaaat agtgcaaaat ctcaacattt atataaataa ctctaaaccc	300
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<210> 169

<211> 579

<212> DNA

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<211> 310

<212> DNA

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<210> 171

<211> 301

<212> DNA

<213> Homo sapiens

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<211> 462

<212> PRT

<213> Homo sapiens

<400> 174

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Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr
 20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
 35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
 50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
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B0213WO seq list.ST25.txt

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115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln
290 295 300

Leu Gly Leu Leu Ser Phe Phe Phe Ala Met Val His Val Ala Tyr Ser
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met
325 330 335

B0213WO seq list.ST25.txt

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu
340 345 350

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr
385 390 395 400

Val Ala Leu Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys
405 410 415

Arg Ala Phe Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe
420 425 430

Val Leu Ala Leu Val Leu Pro Ser Ile Val Ile Leu Val Glu Thr Glu
435 440 445

Phe His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser
450 455 460

<210> 175

<211> 1329

<212> DNA

<213> Homo sapiens

<400> 175
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ggcataaatg gtatcaaaga tgcaaggaag gtcactgtag gtgtgattgg aagtggagat 120
tttgccaaat ccttgaccat tcgacttatt agatgcggct atcatgtggt cataggaagt 180
agaaatccta agtttgcttc tgaatttttt cctcatgtgg tagatgtcac tcatcatgaa 240
gatgctctca caaaaacaaa tataatattt gttgctatac acagagaaca ttatacctcc 300
ctgtgggacc tgagacatct gcttgtgggt aaaatcctga ttgatgtgag caataacatg 360
aggataaacc agtaccacaga atccaatgct gaatatattg cttcattatt cccagattct 420
ttgattgtca aaggatttaa tgttgtctca gcttgggcac ttcagttagg acctaaggat 480
gccagccggc aggtttatat atgcagcaac aatattcaag cgcgacaaca ggttattgaa 540

B0213WO seq list.ST25.txt

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cttgcgccgccc agttgaattt cattcccatt gacttgggat ccttatcatc agccagagag 600
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agcttggcca cttttttttt cttttattcc tttgtcagag atgtgattca tccatatgct 720
agaaaccaac agagtgactt ttacaaaatt cctatagaga ttgtgaataa aaccttacct 780
atagttgcca ttactttgct ctccctagta tacctcgag gtcttctggc agctgcttat 840
caactttatt acggcaccaa gtataggaga tttccacctt gggttgaaac ctggttacag 900
tgtagaaaac agcttggatt actaagtttt ttcttcgcta tgggccatgt tgcctacagc 960
ctctgcttac cgatgagaag gtcagagaga tatttgtttc tcaacatggc ttatcagcag 1020
gttcatgcaa atattgaaaa ctcttggaat gaggaagaag tttggagaat tgaaatgtat 1080
atctcctttg gcataatgag ccttggctta cttccctcc tggcagtcac ttctatccct 1140
tcagtgagca atgctttaaa ctggagagaa ttcagtttta ttcagatctt ttgcagcttt 1200
gcagataccc agactgagct ggaactggaa tttgtcttcc tattgactct acttctttaa 1260
aagcggctgc ccattacatt cctcagctgt ccttgcagtt aggtgtacat gtgactgagt 1320
gttggccag 1329

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<210> 176

<211> 419

<212> PRT

<213> Homo sapiens

<400> 176

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr
1 5 10 15

Phe Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
65 70 75 80

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu
85 90 95

B0213WO seq list.ST25.txt

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Asp Asn Leu Pro Leu Arg Leu
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln
290 295 300

Leu Gly Leu Leu Ser Phe Phe Phe Ala Met Val His Val Ala Tyr Ser
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met
325 330 335

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu
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340

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ile Phe Cys Ser Phe
385 390 395 400

Ala Asp Thr Gln Thr Glu Leu Glu Leu Glu Phe Val Phe Leu Leu Thr
405 410 415

Leu Leu Leu

<210> 177

<211> 940

<212> DNA

<213> Homo sapiens

<400> 177

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aacttgttta cctaattggca taaatggtat caaagatgca aggaagggtca ctgtagggtgt	120
gattggaagt ggagattttg ccaaactctt gaccattcga cttattagat gcggctatca	180
tgtggtcata ggaagtagaa atcctaagtt tgcttctgaa ttttttcctc atgtggtaga	240
tgtcactcat catgaagatg ctctcacaaa aacaaatata atatttggtg ctatacacag	300
agaacattat acctccctgt gggacctgag acatctgctt gtgggtaaaa tcctgattga	360
tgtgagcaat aacatgagga taaaccagta cccagaatcc aatgctgaat atttggcttc	420
attattccca gattctttga ttgtcaaagg atttaatggt gtctcagctt gggcacttca	480
gttaggacct aaggatgcca gccggcaggt ttatatatgc agcaacaata ttcaagcgcg	540
acaacagggt catgcaaata ttgaaaactc ttggaatgag gaagaagttt ggagaattga	600
aatgtatatc tcctttggca taatgagcct tggcttactt tccctcctgg cagtcacttc	660
tatcccttca gtgagcaatg ctttaaactg gagagaattc agttttattc agtctacact	720
tggatatgtc gctctgctca taagtacttt ccatgtttta atttatggat ggaaacgagc	780
ttttgaggaa gagtactaca gattttatac accaccaaac tttgttcttg ctcttgtttt	840
gccctcaatt gtaattctgg tagagacgga gtttcaccgt gttagccagg atggtctcga	900

tctcctgacc tcgtgatccg cccgccttgg cctccaaagt

<210> 178

<211> 299

<212> PRT

<213> Homo sapiens

<400> 178

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr
1 5 10 15Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr
20 25 30Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
35 40 45Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
50 55 60Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
65 70 75 80Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu
85 90 95His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile
100 105 110Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser
115 120 125Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu Glu Val Trp
180 185 190

B0213WO seq list.ST25.txt

Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu Gly Leu Leu
195 200 205

Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn Ala Leu Asn
210 215 220

Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr Val Ala Leu
225 230 235 240

Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys Arg Ala Phe
245 250 255

Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe Val Leu Ala
260 265 270

Leu Val Leu Pro Ser Ile Val Ile Leu Val Glu Thr Glu Phe His Arg
275 280 285

Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser
290 295

<210> 179

<211> 1388

<212> DNA

<213> Homo sapiens

<400> 179
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aacttgttta cctaattggca taaatggtat caaagatgca aggaagggtca ctgtagggtgt 120
gattggaagt ggagattttg ccaaattcctt gaccattcga cttattagat gcggctatca 180
tgtggtcata ggaagtagaa atcctaagtt tgcttctgaa ttttttcctc atgtggtaga 240
tgtcactcat catgaagatg ctctcacaaa aacaaatata atatttggtg ctatacacag 300
agaacattat acctccctgt gggacctgag acatctgctt gtgggtaaaa tcctgattga 360
tgtgagcaat aacatgagga taaaccagta cccagaatcc aatgctgaat atttggtctc 420
attattccca gattctttga ttgtcaaagg atttaatggt gtctcagctt gggcacttca 480
gttaggacct aaggatgccg gccggcaggt ttatatatgc agcaacaata ttcaagcgcg 540
acaacagggtt attgaacttg cccgccagtt gaatttcatt cccattgact tgggatcctt 600
atcatcagcc agagagattg aaaatttacc cctacgactc tttactctct ggagagggcc 660
agtgggtggtg gctataagct tggccacatt tttttccttt attcctttgt cagagatgtg 720

B0213WO seq list.ST25.txt

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ctggcagctg cttatcaact ttattacggc accaagtata ggagatttcc accttggttg 900
gaaacctggt tacagtgtag aaaacagctt ggattactaa gttttttctt cgctatggtc 960
catgttgctt acagcctctg cttaccgatg agaaggttca tgcaaataatt gaaaactctt 1020
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atgttttaat ttatggatgg aaacgagctt ttgaggaaga gtactacaga ttttatacac 1260
caccaaactt tgttcttgct cttgttttgc cctcaattgt aattctggta gagacggagt 1320
ttcaccgtgt tagccaggat ggtctcgatc tcctgacctc gtgatccgcc cgccttggcc 1380
tccaaagt 1388

<210> 180

<211> 234

<212> PRT

<213> Homo sapiens

<400> 180

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr
1 5 10 15

Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
65 70 75 80

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile

100

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser
115 120 125
Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140
Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160
Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175
Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu
180 185 190
Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu
195 200 205
Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr
210 215 220
Phe Phe Ser Phe Ile Pro Leu Ser Glu Met
225 230

<210> 181
<211> 1425
<212> DNA
<213> Homo sapiens

<400> 181
tggaagtgtc cgtatcatgg aatcaatctc tatgatggga agccctaaga gccttagtga 60
aacttgttta cctaattggca taaatggtat caaagatgca aggaagggtca ctgtaggtgt 120
gattggaagt ggagattttg ccaaattcctt gaccattcga cttattagat gcggctatca 180
tgtggtcata ggaagtagaa atcctaagtt tgcttctgaa ttttttcctc atgtggtaga 240
tgtcactcat catgaagatg ctctcacaaa aacaaatata atatttggtg ctatacacag 300
agaacattat acctccctgt gggacctgag acatctgctt gtgggtaaaa tcctgattga 360
tgtgagcaat aacatgagga taaaccagta cccagaatcc aatgctgaat atttggttc 420
attattccca gattctttga ttgtcaaagg atttaatggt gtctcagctt gggcacttca 480
gttaggacct aaggatgccca gccggcaggt ttatatatgc agcaacaata ttcaagcgcg 540

B0213WO seq list.ST25.txt

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acaacagggtt attgaacttg cccgccagtt gaatttcatt cccattgact tgggatcctt 600
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agtggtggtta gctataagct tggccacatt ttttttcctt tattcctttg tcagagatgt 720
gattcatcca tatgctagaa accaacagag tgactttttac aaaattccta tagagattgt 780
gaataaaacc ttacctatag ttgccattac tttgctctcc ctagtatacc ttgcagggtct 840
tctggcagct gcttatcaac tttattatgg caccaagtat aggagatttc caccttggtt 900
ggaaacctgg ttacagtgtg gaaaacagct tggattacta agttttttct tcgctatggt 960
ccatgttgcc tacagcctct gcttaccgat gagaagggtca gagagatatt tgtttctcaa 1020
catggcttat cagcagggtc atgcaaatat tgaaaactct tggaatgagg aagaagtttg 1080
gagaattgaa atgtatatct cctttggcat aatgagcctt ggcttacttt ccctcctggc 1140
agtcacttct atcccttcag tgagcaatgc tttaaactgg agagaattca gttttattca 1200
gtctacactt ggatatgtcg ctctgctcat aagtactttc catgttttaa tttatggatg 1260
gaaacgagct tttgaggaag agtactacag attttataca ccaccaaact ttgttcttgc 1320
tcttgttttg ccctcaattg taattctgga gacggagttt caccgtgtta gccaggatgg 1380
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<210> 182

<211> 461

<212> PRT

<213> Homo sapiens

<400> 182

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr
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Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
65 70 75 80

B0213WO seq list.ST25.txt

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln
290 295 300

Leu Gly Leu Leu Ser Phe Phe Phe Ala Met Val His Val Ala Tyr Ser
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met
325 330 335

B0213WO seq list.ST25.txt

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu
340 345 350

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr
385 390 395 400

Val Ala Leu Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys
405 410 415

Arg Ala Phe Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe
420 425 430

Val Leu Ala Leu Val Leu Pro Ser Ile Val Ile Leu Glu Thr Glu Phe
435 440 445

His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser
450 455 460

<210> 183

<211> 18

<212> PRT

<213> Homo sapiens

<400> 183

Val Glu Thr Glu Phe His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu
1 5 10 15

Thr Ser

<210> 184

<211> 24

<212> PRT

<213> Homo sapiens

B0213WO seq list.ST25.txt

<400> 184

Ile Phe Cys Ser Phe Ala Asp Thr Gln Thr Glu Leu Glu Leu Glu Phe
1 5 10 15

Val Phe Leu Leu Thr Leu Leu Leu
20

<210> 185

<211> 8

<212> PRT

<213> Homo sapiens

<400> 185

Ser Phe Ile Pro Leu Ser Glu Met
1 5